

ABSTRACT OF THE DISCLOSURE

Novel hydroxamic acid compounds are disclosed. These hydroxamates inhibit
peptidyl deformylase (PDF), an enzyme present in prokaryotes. The hydroxymates
5 are useful as antimicrobials and antibiotics. The compounds of the invention display
selective inhibition of peptidyl deformylase versus other metalloproteinases such as
matrix metalloproteinases (MMPs). Methods of synthesis and of use of the
compounds are also disclosed.